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# NOTICE OF ALLOWANCE AND FEE(S) DUE

82750

7590

11/25/2009

Morgan, Lewis & Bockius LLP/Google 2 Palo Alto Square 3000 El Camino Real, Suite 700 Palo Alto, CA 94306 EXAMINER

TRUONG, CAM Y T

ART UNIT PAPER NUMBER

2169

DATE MAILED: 11/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,401	10/20/2003	Benjamin Jay Diament	060963-0015US	5943

TITLE OF INVENTION: NUMBER-RANGE SEARCH SYSTEM AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/25/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including delayed or directed of tions.	ng the Patent, advance onerwise in Block 1, by (	rders and notification of a specifying a new corre	maintenance fees w spondence address;	vill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  82750 7590 11/25/2009  Morgan, Lewis & Bockius LLP/Google 2 Palo Alto Square 3000 El Camino Real, Suite 700				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
Palo Alto, CA 9	4306						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/690,401	10/20/2003	•	Benjamin Jay Diament		0	60963-0015US	5943
TITLE OF INVENTION	I: NUMBER-RANGE S	EARCH SYSTEM AND	METHOD				
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nonprovisional	NO	\$1510	\$0	\$0		\$1510	02/25/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	]			
TRUONG,	CAM Y T	2169	707-003000				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be	of a single firm (having as a member a priney or agent) and the names of up to atent attorneys or agents. If no name is e will be printed.			
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee	THE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	atent. If an assign assignment.			cument has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			b. Payment of Fee(s): (Plea	ase first reapply ar	ny prev	riously paid issue fee s	hown above)
			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number				
5. Change in Entity Sta	tus (from status indicated	*	☐ b. Applicant is no lon	ger claiming SMAI	LL ENT	ΓΙΤΥ status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other than				
				Date			
Typed or printed name							
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Morgan, Lewis &	Bockius LLP/Goog	TRUONG,	САМ Ү Т	
2 Palo Alto Square		ART UNIT PAPER NUM		
3000 El Camino Real, Suite 700 Palo Alto, CA 94306			2169 DATE MAILED: 11/25/200	9

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 532 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 532 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/690,401	DIAMENT, BENJAMIN JAY					
Notice of Allowability	Examiner	Art Unit					
	Cam Y T. Truong	2169					
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	pears on the cover sheet wi S (OR REMAINS) CLOSED ir 5) or other appropriate common RIGHTS. This application is s	th the correspondence address this application. If not included unication will be mailed in due course. THIS					
1. This communication is responsive to <u>10/8/2009</u> .							
2. The allowed claim(s) is/are <u>1,3-6,13,15-18,25,27-30 and</u>	<u>37-48</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority         <ul> <li>All</li> <li>Some*</li> <li>None</li> <li>Ortified copies of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the priority of the</li></ul></li></ol>	ve been received. ve been received in Application documents have been received. The second of this communication to file a supplication. The second of this application. The second of this application of the attached EXA ves reason(s) why the oath of the attached EXA ves reason(s) why the oath of the attached EXA ves reason(s) why the oath of the attached EXA ves reason(s) why the oath of the attached EXA ves reason(s)	n No  If in this national stage application from the a reply complying with the requirements					
5. CORRECTED DRAWINGS (as "replacement sheets") m							
(a) ☐ including changes required by the Notice of Draftspe	-	v ( PTO-948) attached					
. — . — . — —	1)  hereto or 2) to Paper No./Mail Date						
Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR							
each sheet. Replacement sheet(s) should be labeled as such in							
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN							
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	) 6. ☐ Interview S Paper No./ 7. ☑ Examiner's	formal Patent Application  ummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance  -					
Cam Y Truong							
Primary Examiner Art Unit: 2169							

Application/Control Number: 10/690,401 Page 2

Art Unit: 2169

### **DETAILED ACTION**

1. Claims 1, 3-6, 13, 15-18, 25, 27-30 and 37-48 are pending in this Office Action.

# Allowable Subject Matter

2. Claims 1, 3-6, 13, 15-18, 25, 27-30 and 37-48 are allowed.

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 1, 13 and 25, wherein generating an expression of numerical index terms based on the boundary number, wherein a respective numerical index term in the expression includes information indicative of an integral portion of a logarithm of the boundary number; searching a document index using the expression to identify one or more documents containing numbers that satisfy the expression.

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

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Art Unit: 2169

#### **Contact Information**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cam Y Truong/ Primary Examiner, Art Unit 2169